# Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

#### **Listing of Claims:**

1. (Currently Amended) An onium salt compound having a cation moiety of the following formula (1),

$$(Ar^2)_{\overline{n}} - A^{+--} (Ar^1)_{\overline{n}}$$
 (1)

wherein A represents an iodine atom or a sulfur atom, when A is an iodine atom, m is 1 or 2 and n is 0 or 1, provided that (m+n)=2, and x is an integer of 1-10, and when A is a sulfur atom, m is 1-3 and n is 0-2, provided that (m+n)=3, and x is an integer of 1-15;  $Ar^1$  represents a substituted or unsubstituted aromatic hydrocarbon group having 6-20 carbon atoms with a valence of 1 to (x+1) or a substituted or unsubstituted heterocyclic group having 3-20 atoms with a valence of 1 to (x+1),  $Ar^2$  represents a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or  $Ar^1$  and  $Ar^2$  mutually bond together with  $A^+$  in the formula to form a group possessing a cyclic structure with 3-8 atoms; and the x-number of P groups bonding to one or more of the m-number of  $Ar^1$  groups individually represent -O-SO<sub>2</sub>R<sup>1</sup>, -O-S(O)R<sup>2</sup>, or - SO<sub>2</sub>R<sup>3</sup>, wherein  $R^1[[,]]$  and  $R^2$  individually represent a hydrogen atom, a substituted or

unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or a group -N(R')2, wherein R' individually represents a hydrogen atom, a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or two R' groups form, in combination and together with the nitrogen atom in the formula, a group having a cyclic structure with 3-8 atoms and wherein R<sup>3</sup> represents a hydrogen atom, a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or a group -N(R')<sub>2</sub>, wherein R' individually represents a hydrogen atom, a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or two R' groups form, in combination and together with the nitrogen atom in the formula, a group having a cyclic structure with 3-8 atoms.

- 2. (Original) The onium salt compound according to claim 1, wherein A in formula (1) is a sulfur atom.
- 3. (Currently Amended) [[The]] An onium salt compound according to claim 1, wherein P in formula (1) is O-SO<sub>2</sub>-CF<sub>2</sub>-R<sup>4</sup>-and the having a cationic moiety has the in of the following formula (2),

wherein A, Ar<sup>1</sup>, m, Ar<sup>2</sup>, n, and x are respectively the same as A, Ar<sup>1</sup>, m, Ar<sup>2</sup>, n, and x in the formula (1) A represents an iodine atom or a sulfur atom, when A is an iodine atom, m is 1 or 2 and n is 0 or 1, provided that (m+n)=2, and x is an integer of 1-10, and when A is a sulfur atom, m is 1-3 and n is 0-2, provided that (m+n) = 3, and x is an integer of 1-15; Ar<sup>1</sup> represents a substituted or unsubstituted aromatic hydrocarbon group having 6-20 carbon atoms with a valence of 1 to (x+1) or a substituted or unsubstituted heterocyclic group having 3-20 atoms with a valence of 1 to (x+1), Ar<sup>2</sup> represents a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or Ar<sup>1</sup> and Ar<sup>2</sup> mutually bond together with A<sup>+</sup> in the formula to form a group possessing a cyclic structure with 3-8 atoms and R<sup>4</sup> represents a hydrogen atom, fluorine

atom, nitro group, cyano group, or a monovalent organic group having 1-20 carbon atoms.

- 4. (Original) The onium salt compound according to claim 3, wherein A in formula (2) is a sulfur atom.
- 5. (Original) The onium salt compound according to claim 3, wherein R<sup>4</sup> in the formula (2) is a group of the following formula (3),

$$-CF_{2}$$

$$(R^{5})_{p}$$

$$(3)$$

wherein R<sup>5</sup> represents a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or a group -N(R<sup>2</sup>)<sub>2</sub>, wherein R<sup>2</sup> individually represents a hydrogen atom, a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted,

monovalent heterocyclic group having 3-20 atoms, or two R<sup>2</sup> groups form, in combination and together with the nitrogen atom in the formula, a group having a cyclic structure with 3-8 atoms, p is an integer of 0-16, q is an integer of 0-8, and r is an integer of 1-3.

- 6. (Original) An onium salt compound according to claim 5, wherein both p and q are 0 and both r's are 1
- 7. (Currently Amended) [[The]] An onium salt compound according to claim 1, wherein the group P in the formula (1) is represented by the following formula,

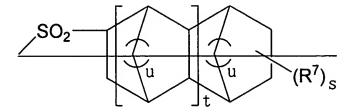
and the having a cationic moiety [[is]] represented by the following formula (4)

$$(Ar^{2})_{\overline{n}} A^{+} (Ar^{1})_{\overline{n}}$$

wherein A, Ar<sup>1</sup>, m, Ar<sup>2</sup>, n, and x are respectively the same as A, Ar<sup>1</sup>, m, Ar<sup>2</sup>, n, and x in the formula (1), p and q are respectively the same as p and q in the formula (3), A represents an iodine atom or a sulfur atom, when A is an iodine atom, m is 1 or 2 and n is 0 or 1, provided that (m+n)=2, and x is an integer of 1-10, and when A is a sulfur atom,

m is 1-3 and n is 0-2, provided that (m+n) = 3, and x is an integer of 1-15; Ar<sup>1</sup> represents a substituted or unsubstituted aromatic hydrocarbon group having 6-20 carbon atoms with a valence of 1 to (x+1) or a substituted or unsubstituted heterocyclic group having 3-20 atoms with a valence of 1 to (x+1),  $Ar^2$  represents a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or Ar<sup>1</sup> and Ar<sup>2</sup> mutually bond together with A<sup>+</sup> in the formula to form a group possessing a cyclic structure with 3-8 atoms; p is an integer of 0-16; q is an integer of 0-8; and R<sup>6</sup> represents a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or a group -N(R<sup>3</sup>)<sub>2</sub>, wherein R<sup>3</sup> individually represents a hydrogen atom, a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted, monovalent heterocyclic group having 3-20 atoms, or two R<sup>3'</sup> groups form, in combination and together with the nitrogen atom in the formula, a group having a cyclic structure with 3-8 atoms.

8. (Currently Amended) [[The]] An onium salt compound according to claim 1, wherein the group P in the formula (1) is represented by the following formula,



and the having a cationic moiety [[is]] represented by the following formula (5),

$$(Ar^{2})_{\overline{n}} A^{+} - (Ar^{1})_{\overline{m}} SO_{2} - (R^{7})_{S}$$

$$(SO_{2})_{\overline{n}} A^{+} - (R^{7}$$

wherein A, Ar<sup>1</sup>, m, Ar<sup>2</sup>, n, and x are respectively the same as A, Ar<sup>1</sup>, m, Ar<sup>2</sup>, n, and x
defined in the formula (1), A represents an iodine atom or a sulfur atom, when A is an
iodine atom, m is 1 or 2 and n is 0 or 1, provided that (m+n)=2, and x is an integer of 110, and when A is a sulfur atom, m is 1-3 and n is 0-2, provided that (m+n) = 3, and x is
an integer of 1-15; Ar<sup>1</sup> represents a substituted or unsubstituted aromatic hydrocarbon
group having 6-20 carbon atoms with a valence of 1 to (x+1) or a substituted or
unsubstituted heterocyclic group having 3-20 atoms with a valence of 1 to (x+1), Ar<sup>2</sup>
represents a substituted or unsubstituted monovalent aromatic hydrocarbon group having
6-20 carbon atoms or a substituted or unsubstituted monovalent heterocyclic group
having 3-20 atoms, or Ar<sup>1</sup> and Ar<sup>2</sup> mutually bond together with A<sup>+</sup> in the formula to form
a group possessing a cyclic structure with 3-8 atoms, or Ar<sup>1</sup> and Ar<sup>2</sup> mutually bond
together with A<sup>+</sup> in the formula to form a group possessing a cyclic structure with 3-8
atoms; R<sup>7</sup> represents a substituted or unsubstituted alkyl group having 1-20 carbon atoms,
a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20

carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or a group -N (R<sup>4'</sup>)<sub>2</sub>, wherein R<sup>4'</sup> individually represents a hydrogen atom, a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted, monovalent heterocyclic group having 3-20 atoms, or two R<sup>4'</sup> groups form, in combination and together with the nitrogen atom in the formula, a group having a cyclic structure with 3-8 atoms, s is an integer of 0-6, t is an integer of 0-5, and u is an integer of 1-3.

9. (Currently Amended) [[The]] An onium salt compound according to claim 1, wherein the group P in the formula (1) is represented by the following formula,

$$SO_2$$
 $O-R^8$ 
 $O-R^9$ 

and the having a cationic moiety [[is]] represented by the following formula (6),

$$SO_{2} \longrightarrow O-R^{8}$$

$$O-R^{9}$$

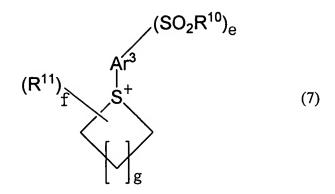
$$X \longrightarrow O-R^{9}$$

$$X \longrightarrow O-R^{9}$$

$$X \longrightarrow O-R^{9}$$

wherein A, Ar<sup>4</sup>, m, Ar<sup>2</sup>, n, and x are respectively the same as A, Ar<sup>4</sup>, m, Ar<sup>2</sup>, n, and x defined in the formula (1), A represents an iodine atom or a sulfur atom, when A is an iodine atom, m is 1 or 2 and n is 0 or 1, provided that (m+n)=2, and x is an integer of 1-10, and when A is a sulfur atom, m is 1-3 and n is 0-2, provided that (m+n) = 3, and x is an integer of 1-15; Ar<sup>1</sup> represents a substituted or unsubstituted aromatic hydrocarbon group having 6-20 carbon atoms with a valence of 1 to (x+1) or a substituted or unsubstituted heterocyclic group having 3-20 atoms with a valence of 1 to (x+1), Ar<sup>2</sup> represents a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or Ar<sup>1</sup> and Ar<sup>2</sup> mutually bond together with A<sup>+</sup> in the formula to form a group possessing a cyclic structure with 3-8 atoms, or Ar<sup>1</sup> and Ar<sup>2</sup> mutually bond together with A<sup>+</sup> in the formula to form a group possessing a cyclic structure with 3-8 atoms; R<sup>8</sup> and R<sup>9</sup> individually represent a substituted or unsubstituted alkyl group having 1-20 carbon atoms or a substituted or unsubstituted monovalent alicyclic group having 3-20 carbon atoms, or R<sup>8</sup> and R<sup>9</sup> may form, in combination and together with one carbon atom and two oxygen atoms in the formula, a group having a cyclic structure with 4-10 atoms; and v and w are respectively the integers of 0-5, satisfying the formula  $(v+w)\geq 1$ .

10. (Withdrawn) An onium salt compound having a cation moiety of the following formula (7),



wherein Ar<sup>3</sup> represents a substituted or unsubstituted divalent aromatic hydrocarbon group having 6-20 carbon atoms or a substituted or unsubstituted divalent heterocyclic group having 3-20 atoms, R<sup>10</sup> and R<sup>11</sup> individually represent a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or a group -N(R<sup>5</sup>)<sub>2</sub> wherein R<sup>5</sup> individually represents a hydrogen atom, a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted, monovalent heterocyclic group having 3-20 atoms, or two R<sup>5</sup> groups form, in combination and together with the nitrogen atom in the formula, a group having a cyclic structure with 3-8 atoms, e is an integer of 1-10, f is an integer of 0-6, and g is an integer of 0-3.

11. (Withdrawn) The onium salt compound according to claim 10, wherein the

group Ar<sup>3</sup> in the formula (7) is represented by the following formula,

and the cationic moiety is represented by the following formula (8),

$$(R^{12})_h$$
  $(SO_2R^{10})_e$  (8)

wherein R<sup>10</sup>, e, R<sup>11</sup>, f, and g are respectively the same as R<sup>10</sup>, e, R<sup>11</sup>, f, and g defined for the above formula (7), R<sup>12</sup> represents a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or a group -N(R<sup>6</sup>)<sub>2</sub>, wherein R<sup>6</sup> individually represents a hydrogen atom, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted monovalent aromatic

hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted, monovalent heterocyclic group having 3-20 atoms, or two R<sup>6</sup> groups form, in combination and together with the nitrogen atom in the formula, a group having a cyclic structure with 3-8 atoms, and h is an integer of 0-6.

12. (Withdrawn) The onium salt compound according to claim 10, wherein the group Ar<sup>3</sup> in the formula (7) is represented by the following formula,

and the cationic moiety is represented by the following formula (9)

$$(R^{12})_h$$
  $(SO_2R^{10})_e$  (9)

wherein R<sup>10</sup>, e, R<sup>11</sup>, f, R<sup>12</sup> and h are the same as R<sup>10</sup>, e, R<sup>11</sup>, f, R<sup>12</sup> and h defined for the above formula (8).

13. (Withdrawn) The onium salt compound according to claim 10, wherein the group Ar<sup>3</sup> in the formula (7) is represented by the following formula,

e=1, and the cationic moiety is represented by the following formula (10),

$$(R^{12})_h$$
  $SO_2R^{10}$  (10)

wherein  $R^{10}$ ,  $R^{11}$ , f,  $R^{12}$  and h are the same respectively as  $R^{10}$ ,  $R^{11}$ , f,  $R^{12}$  and h defined for the above formula (8).

- 14. (Currently Amended) A positive tone radiation-sensitive resin composition comprising:
- (A) at least one photoacid generator selected from the onium salt compounds according to claim 1 as a photoacid generator for photoresist onium salt compound having a cation moiety of the following formula (1).

$$(Ar^2)_{\overline{n}} A^{+} (Ar^1)_{\overline{n}}$$
 (1)

wherein A represents an iodine atom or a sulfur atom, when A is an iodine atom, m is 1 or 2 and n is 0 or 1, provided that (m+n)=2, and x is an integer of 1-10, and when A is a sulfur atom, m is 1-3 and n is 0-2, provided that (m+n) = 3, and x is an integer of 1-15; Ar<sup>1</sup> represents a substituted or unsubstituted aromatic hydrocarbon group having 6-20 carbon atoms with a valence of 1 to (x+1) or a substituted or unsubstituted heterocyclic group having 3-20 atoms with a valence of 1 to (x+1),  $Ar^2$  represents a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or Ar<sup>1</sup> and Ar<sup>2</sup> mutually bond together with A<sup>+</sup> in the formula to form a group possessing a cyclic structure with 3-8 atoms; and the x-number of P groups bonding to one or more of the m-number of Ar<sup>1</sup> groups individually represent -O-SO<sub>2</sub>R<sup>1</sup>, -O-S(O)R<sup>2</sup>, or - SO<sub>2</sub>R<sup>3</sup>, wherein R<sup>1</sup>, R<sup>2</sup>, and R<sup>3</sup> individually represent a hydrogen atom, a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or a group -N(R')2, wherein R' individually represents a hydrogen atom, a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon

atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or two R' groups form, in combination and together with the nitrogen atom in the formula, a group having a cyclic structure with 3-8 atoms; and

- (B) a resin having an acid-dissociable group and which is insoluble or scarcely soluble in alkali, but which becomes alkali soluble when the acid-dissociable group dissociates.
- 15. (Original) The positive tone radiation-sensitive resin composition according to claim 14, wherein the onium salt compound is selected from the onium salt compounds having -SO<sub>2</sub>R<sup>3</sup> for the group P in the formula (1).
- 16. (Currently Amended) [[The]] A positive tone radiation-sensitive resin composition according to claim 14, wherein the photoacid generator is selected from the onium salt compound according to claim 3 comprising (A) at least one onium salt compound according to Claim 3 as a photoacid generator; and (B) a resin having an acid-dissociable group and which is insoluble or scarcely soluble in alkali, but becomes alkali soluble when the acid-dissociable group dissociates.
- 17. (Currently Amended) [[The]] A positive tone radiation-sensitive resin composition according to claim 14, wherein the photoacid generator is at least one onium salt compound according to claim 5 comprising: (A) at least one onium salt compound according to Claim 5 as a photoacid generator; and (B) a resin having an acid-dissociable

group and which is insoluble or scarcely soluble in alkali, but becomes alkali soluble when the acid-dissociable group dissociates.

18. (Withdrawn) A positive tone radiation-sensitive resin composition comprising: (A) at least one photoacid generator selected from the onium salt compounds according to claim 10 as a photoacid generator for photoresist and (B) a resin having an acid-dissociable group and insoluble or scarcely soluble in alkali, but becomes alkali soluble when the acid-dissociable group dissociates.

19. (New) An onium salt compound having a cation moiety of the following formula (1),

$$(Ar^2)_{\overline{n}} A^+ (Ar^1)_{\overline{n}}$$
 (1)

wherein A represents an iodine atom or a sulfur atom, when A is an iodine atom, m is 1 or 2 and n is 0 or 1, provided that (m+n)=2, and x is an integer of 1-10, and when A is a sulfur atom, m is 2 or 3 and n is 0 or 1, provided that (m+n)=3, and x is an integer of 1-15;  $Ar^1$  represents a substituted or unsubstituted aromatic hydrocarbon group having 6-20 carbon atoms with a valence of 1 to (x+1) or a substituted or unsubstituted heterocyclic group having 3-20 atoms with a valence of 1 to (x+1),  $Ar^2$  represents a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or  $Ar^1$  and  $Ar^2$  mutually bond together with  $A^+$  in the formula to form a group possessing a cyclic structure with 3-8 atoms; and the x-number of P groups bonding to the m-number

of Ar<sup>1</sup> groups individually represent -O-SO<sub>2</sub>R<sup>1</sup>, -O-S(O)R<sup>2</sup>, or - SO<sub>2</sub>R<sup>3</sup>, wherein R<sup>1</sup>, R<sup>2</sup>, and R<sup>3</sup> individually represent a hydrogen atom, a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or a group -N(R')<sub>2</sub>, wherein R' individually represents a hydrogen atom, a substituted or unsubstituted alkyl group having 1-20 carbon atoms, a substituted or unsubstituted monovalent alicyclic hydrocarbon group having 3-20 carbon atoms, an alkenyl group having 2-20 carbon atoms, a substituted or unsubstituted monovalent aromatic hydrocarbon group having 6-20 carbon atoms, or a substituted or unsubstituted monovalent heterocyclic group having 3-20 atoms, or two R' groups form, in combination and together with the nitrogen atom in the formula, a group having a cyclic structure with 3-8 atoms.

20. (New) An onium salt compound having a cation moiety selected from the group consisting of:

$$S^{+}$$
  $SO_{2}$   $CH_{3}$ 

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$$S^+$$
  $SO_2$   $CH_2$  ; and

21. (New) A positive tone radiation-sensitive resin composition comprising: (A) at least one onium salt compound according to Claim 20 as a photoacid generator; and (B) a resin having an acid-dissociable group and which is insoluble or scarcely soluble in alkali, but becomes alkali soluble when the acid-dissociable group dissociates.